

FIG. 1

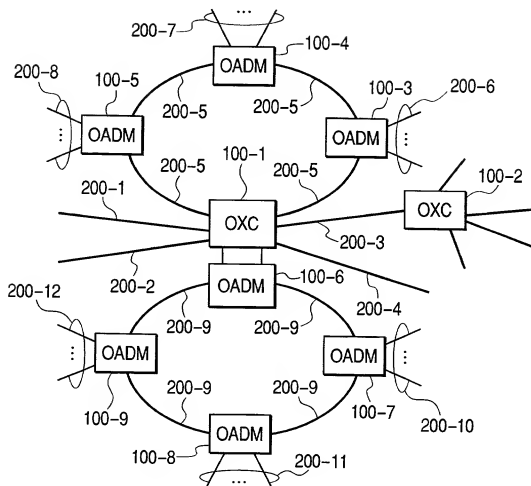


FIG. 2

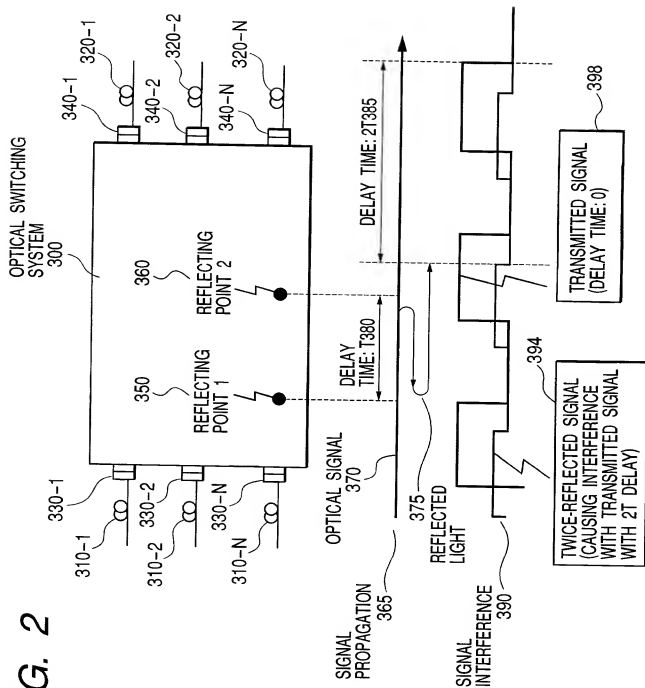


FIG. 3

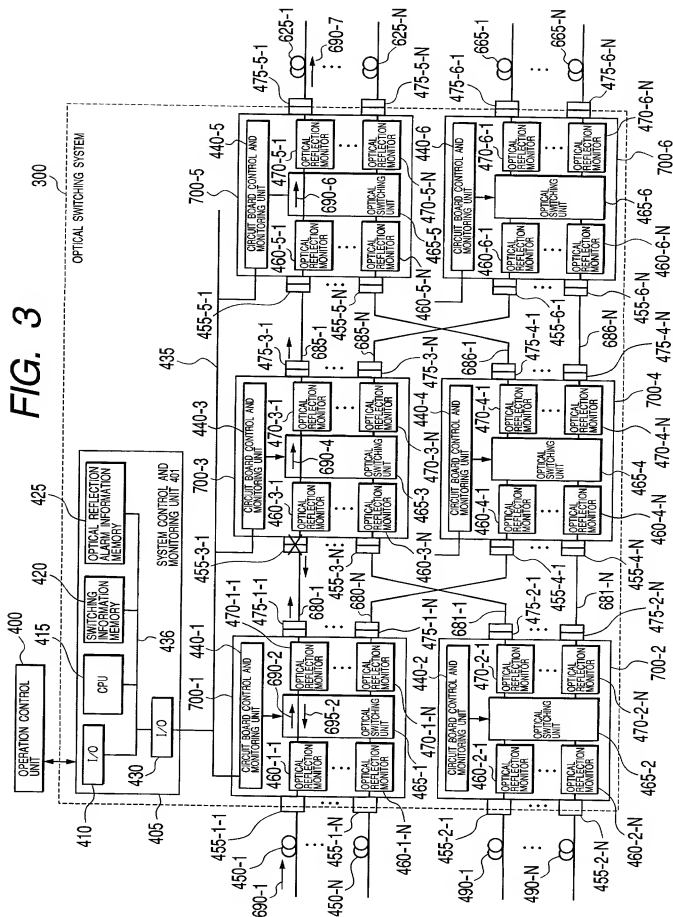


FIG. 4

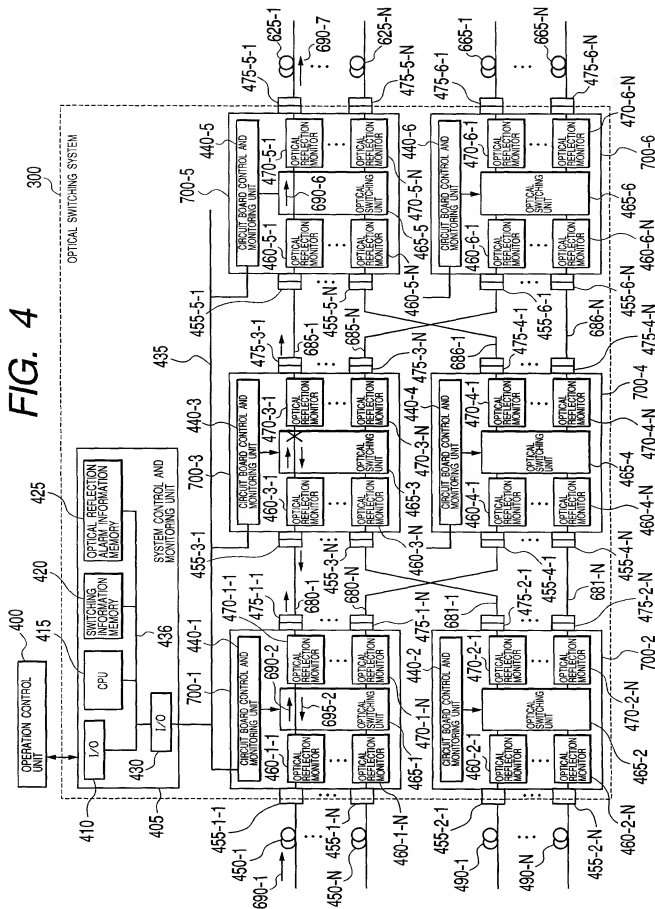


FIG. 5

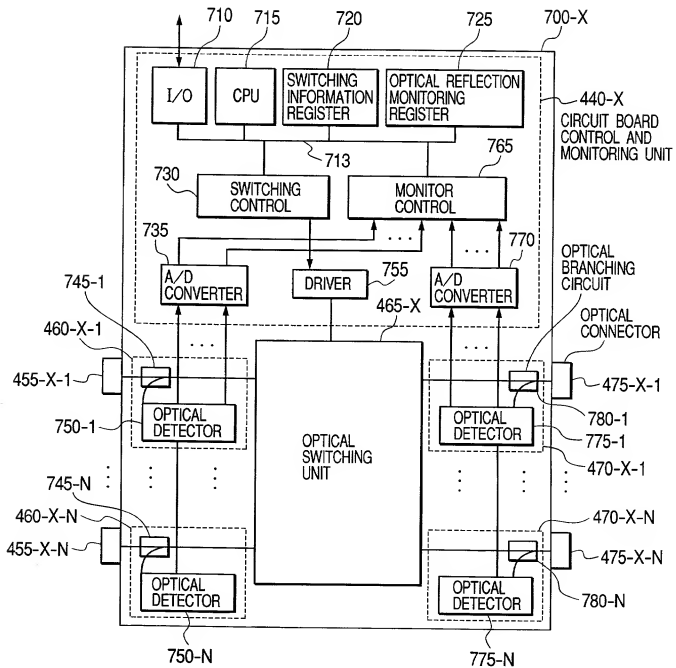


FIG. 6

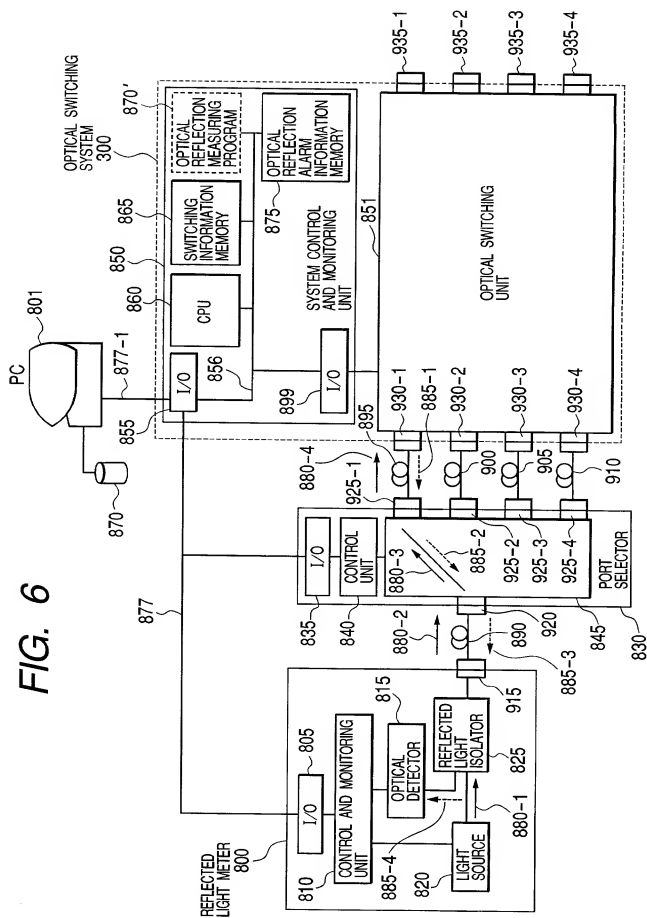


FIG. 7

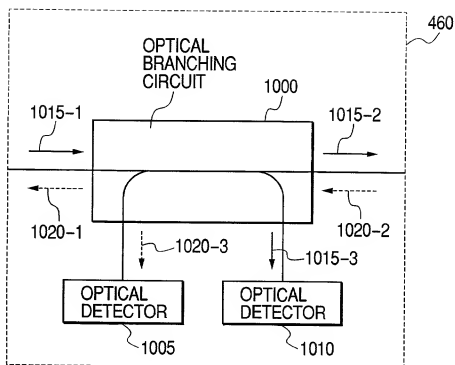


FIG. 8

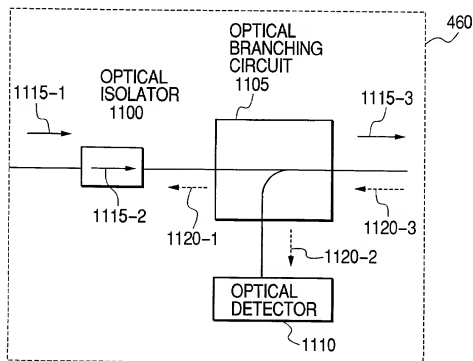


FIG. 9

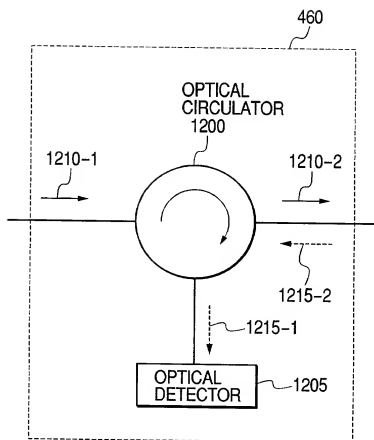




FIG. 10

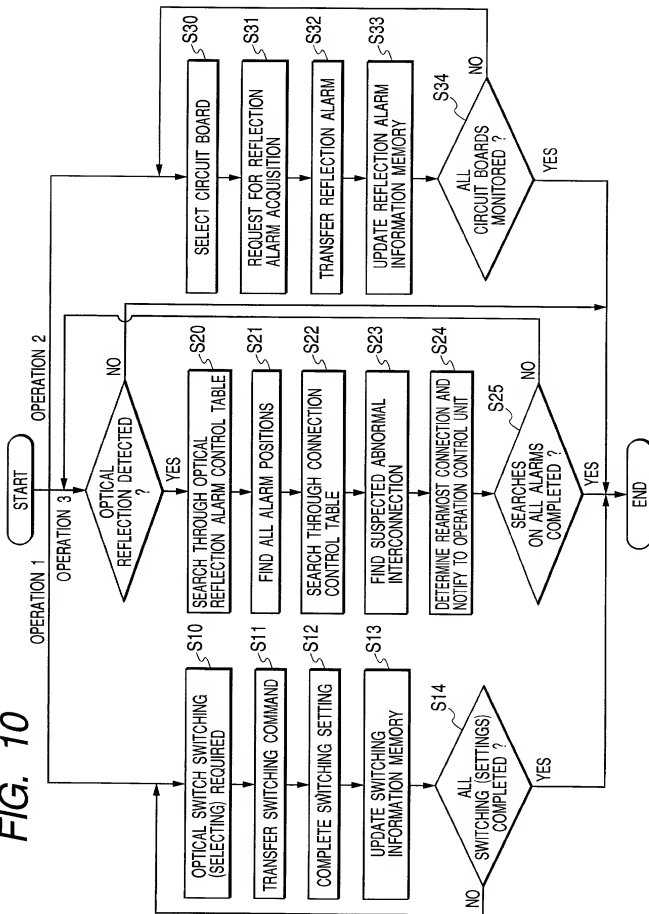


FIG. 11

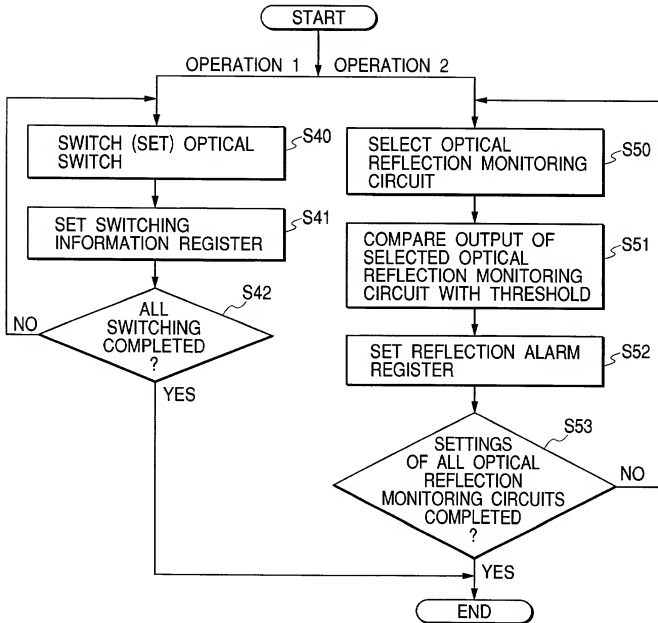
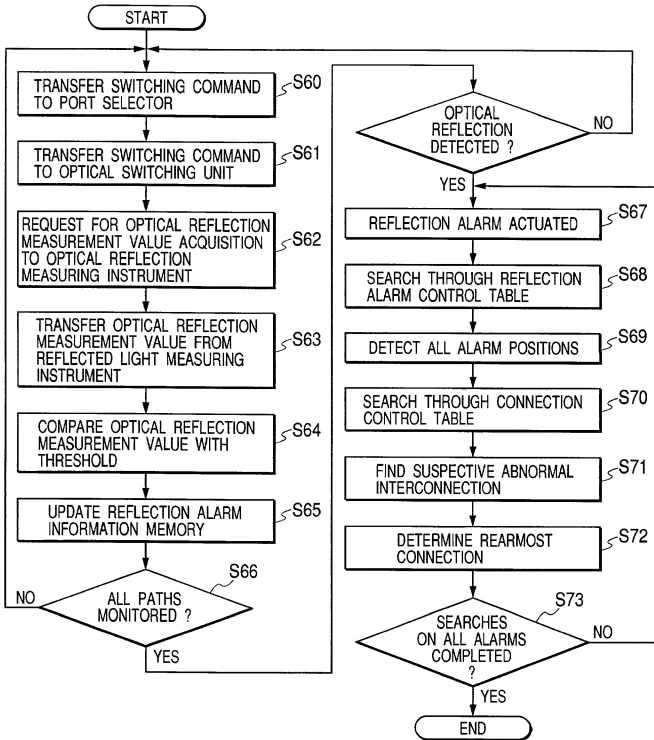


FIG. 12



**FIG. 13A**

	CB1		CB3		CB5	
	INPUT PORT	OUTPUT PORT	INPUT PORT	OUTPUT PORT	INPUT PORT	OUTPUT PORT
PORT 1	ABNORMAL	ABNORMAL	NORMAL	NORMAL	NORMAL	NORMAL
PORT 2	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
⋮	⋮	⋮	⋮	⋮	⋮	⋮
PORT N	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
	CB2		CB4		CB6	
	INPUT PORT	OUTPUT PORT	INPUT PORT	OUTPUT PORT	INPUT PORT	OUTPUT PORT
PORT 1	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
PORT 2	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
⋮	⋮	⋮	⋮	⋮	⋮	⋮
PORT N	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL

**FIG. 13B**

	CB1		CB3		CB5	
	INPUT PORT	OUTPUT PORT	INPUT PORT	OUTPUT PORT	INPUT PORT	OUTPUT PORT
PORT 1	ABNORMAL	ABNORMAL	ABNORMAL	NORMAL	NORMAL	NORMAL
PORT 2	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
⋮	⋮	⋮	⋮	⋮	⋮	⋮
PORT N	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
	CB2		CB4		CB6	
	INPUT PORT	OUTPUT PORT	INPUT PORT	OUTPUT PORT	INPUT PORT	OUTPUT PORT
PORT 1	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
PORT 2	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
⋮	⋮	⋮	⋮	⋮	⋮	⋮
PORT N	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL

FIG. 14

WITHIN CB1		CB-TO-CB		WITHIN CB3		CB-TO-CB		WITHIN CB5	
INPUT PORT	OUTPUT PORT			INPUT PORT	OUTPUT PORT			INPUT PORT	OUTPUT PORT
1 → 1		CB1 OUTPUT PORT 1 → CB3 INPUT PORT 1		1 → 1		CB3 OUTPUT PORT 1 → CB5 INPUT PORT 1		1 → 1	
.				.				.	
.				.				.	
.				.				.	
N → 1		CB1 OUTPUT PORT N → CB4 INPUT PORT 1		N → N		CB3 OUTPUT PORT N → CB6 INPUT PORT 1		N → N	
WITHIN CB2				WITHIN CB4				WITHIN CB6	
INPUT PORT	OUTPUT PORT			INPUT PORT	OUTPUT PORT			INPUT PORT	OUTPUT PORT
1 → N		CB2 OUTPUT PORT 1 → CB3 INPUT PORT N		1 → 1		CB4 OUTPUT PORT 1 → CB5 INPUT PORT N		1 → 1	
.				.				.	
.				.				.	
.				.				.	
N → 1		CB2 OUTPUT PORT N → CB4 INPUT PORT N		N → N		CB4 OUTPUT PORT N → CB6 INPUT PORT N		N → N	